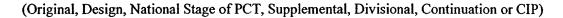
Atty. Docket No. MIT-051

(5473/53)

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION





As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

| This declaration is of the following type: (check one applicable item below) | | | |
|--|--|--|--|
| | original design supplemental national stage of PCT | | |
| | divisional continuation continuation-in-part (CIP) | | |

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

METHOD AND APPARATUS FOR DETERMINING FORCES TO BE APPLIED TO A USER THROUGH A HAPTIC INTERFACE

Harry Harry E1

SPECIFICATION IDENTIFICATION

| the specific | cation of which (check one): |
|--|---|
| | is attached hereto. |
| \boxtimes | was filed on April 4, 1996 as Application Serial No. 08/627,432 or |
| . 🗆 | Express Mail No., as Serial No. not yet known and was amended on (if applicable). |
| | was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on (if any). |
| | ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR |
| | eby state that I have reviewed and understand the contents of the above identified specification the claims as amended by any amendment referred to herein. |
| | nowledge the duty to disclose information which is material to the examination of this in accordance with Title 37, Code of Federal Regulations, §1.56. |
| | PRIORITY CLAIM |
| application least one of foreign ap designation | beby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign (s) for patent or inventor's certificate or of any PCT international application(s) designating at country other than the United States of America listed below and have also identified below any plication(s) for patent or inventor's certificate or any PCT international application(s) g at least one country other than the United States of America filed by me on the same subject ring a filing date before that of the application(s) of which priority is claimed. |
| Chec | k one: |
| \boxtimes | no such applications have been filed. |
| П | such applications have been filed as follows: |

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Country | Application Number | Date of Filing (mo., day, year) | Priority Claimed Under 37 USC 119 |
|---------|-----------------------|--|--------------------------------------|
| | | | TYES NOT |
| | | | TYES NO |
| | | | □YES NO □ |
| A | 12 MONTHS (| LICATION(S), IF ANY 6 MONTHS FOR DESI THIS U.S. APPLICATIO | (GN) PRIOR TO |
| | | | |
| | | | |

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120:

STATUS

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |
|--------------------------|---------------|--------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |

U.S. FILING DATE

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

| Steven M. Bauer | Reg. No. 31,481 |
|------------------------|------------------|
| Paula A. Campbell | Reg. No. 32,503 |
| Joseph A. Capraro, Jr. | Reg. No. 36,471 |
| John J. Cotter | Reg. No. 38,116 |
| Gillian M. Fenton | Reg. No. 36,508 |
| Duncan A. Greenhalgh | Reg. No. 38,678 |
| Edward J. Kelly | Reg. No. 38,936 |
| Robin D. Kelley | Reg. No. 34,637 |
| Douglas J. Kline | Reg. No. 35,574 |
| John D. Lanza | Reg. No. 40,060 |
| Robin R. Longo | Reg. No. 40,071 |
| Thomas C. Meyers | Reg. No. 36,989 |
| Steven M. Mills | Reg. No. 36,610 |
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| Kurt Rauschenbach | Reg. No. 40,137 |
| Gretchen A. Rice | Reg. No. 37,429 |
| Christopher W. Stamos | Reg. No. 35,370 |
| Robert J. Tosti | Reg. No. 35,393 |
| Thomas A. Turano | Reg. No. 35,722 |
| Michael J. Twomey | Reg. No. 38,349 |
| Christine C. Vito | Reg. No. 39,061` |

Direct correspondence to:

U.S. APPLICATIONS

Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

Direct telephone calls to:

Thomas A. Turano (617) 248-7738

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

| Craig B Zilles | U.S.A. | | |
|---|-------------|--|--|
| Full name of first inventor | Citizenship | | |
| CRHO TUOS | 19/5/16 | | |
| Inventor's signature | Date / | | |
| 2564 Branch St., #10, Middleton, Wisconsin 53562 | | | |
| Residence | , | | |
| Same as above | | | |
| Post Office Address | | | |
| | | | |
| I V consth Callaham, In | U.S.A. | | |
| J. Kenneth Salisbury, Jr. Full name of second inventor | Citizenship | | |
| Full name of second inventor | Citizenship | | |
| T | Date | | |
| Inventor's signature | | | |
| 20 Pemberton St., Cambridge, Massachusetts 02140 | · | | |
| Residence | | | |
| Same as above | | | |
| Post Office Address | | | |
| | | | |
| | | | |
| Thomas H. Massie | U.S.A. | | |
| Full name of third inventor | Citizenship | | |
| | | | |
| Inventor's signature Date | | | |
| 5 Linlew Dr., Apt. 20, Derry, New Hampshire 0303 | 8 | | |
| Residence | | | |
| Same as above | | | |
| Post Office Address | | | |

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH FORM A PART OF THIS DECLARATION

| \boxtimes | Signature for fourth and subsequent joint inventors. Number of pages added 1. |
|-------------|---|
| | Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added |
| | Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added |
| | Added pages to combined declaration and power of attorney for divisional, continuation, or continuation in-part (CIP) applicationNumber of pages added. |
| | Authorization of attorney(s) to accept and follow instructions from representative. |
| o furth | er pages form a part of this Declaration then end this Declaration with this page and check the item. |
| | This declaration ends with this page. |

ADDED PAGE FOR ADDITIONAL INVENTORS

| David Lawrence Brock | U.S.A. | |
|---|-------------|--|
| Full name of fourth inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 83 Park Ave., Natick, Massachusetts 01760 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |
| | | |
| M. 1. A. G.: Sauce | FI C A | |
| Mandayam A. Srinivasan | U.S.A. | |
| Full name of fifth inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 31 Cross Street, West Newton, MA 02165 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |
| | | |
| | | |
| Hugh B. Morgenbesser | U.S.A. | |
| Full name of sixth inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 11A Cottage Avenue, Somerville, MA 02144 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |

387MBR5473/53.200558

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

(Original, Design, National Stage of PCT, Supplemental, Divisional, Continuation or CIP)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

| | THE OF DECEMBER . |
|-------------|---|
| This | declaration is of the following type: (check one applicable item below) |
| \boxtimes | original |
| | design |
| | supplemental national stage of PCT |
| | divisional |
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| Country | Application Number | Date of Filing (mo., day, year) | Priority Claimed Under 37 USC 119 |
|---------|-----------------------|---|--------------------------------------|
| | | | □YES NO □ |
| | | | □YES NO □ |
| | | | □YES NO □ |
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| AL | 12 MONTHS (| LICATION(S), IF ANY 6 MONTHS FOR DESI HIS U.S. APPLICATIO | |
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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120:

STATUS

| | | · . |
|--------------------------|---------------|--------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |

U.S. FILING DATE

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As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

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|-----------------|
| Reg. No. 32,503 |
| Reg. No. 36,471 |
| Reg. No. 38,116 |
| Reg. No. 36,508 |
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| Reg. No. 38,349 |
| Reg. No. 39,061 |
| |

Direct correspondence to:

U.S. APPLICATIONS

Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

Direct telephone calls to:

Thomas A. Turano (617) 248-7738

DECLARATION

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SIGNATURE(S)

| Craig B. Zilles | U.S.A. |
|--|-------------|
| Full name of first inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 2564 Branch St., #10, Middleton, Wisconsin 53562 | |
| Residence | |
| Same as above | 1 |
| Post Office Address | |
| | |
| J. Kenneth Salisbury, Jr. | U.S.A. |
| Full name of second inventor | Citizenship |
| In with what a travel | nov. 4,1996 |
| Inventor's signature | Date |
| 20 Pemberton St., Cambridge, Massachusetts 02140 | 3 |
| Residence | |
| Same as above | |
| Post Office Address | |
| | |
| Thomas H. Massie | U.S.A. |
| Full name of third inventor | Citizenship |
| | • |
| Inventor's signature | Date |
| 5 Linlew Dr., Apt. 20, Derry, New Hampshire 0303 | 8 |
| Residence | |
| Same as above | |
| Post Office Address | |

. 1.4

Combined Declaration And Power of Attorney For Patent Application Page 7

ADDED PAGE FOR ADDITIONAL INVENTORS

| David Lawrence Brock | U.S.A. |
|---|-------------|
| Full name of fourth inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 83 Park Ave., Natick, Massachusetts 01760 | |
| Residence | |
| Same as above | |
| Post Office Address | |
| | |
| | U.S.A. |
| Mandayam A. Srinivasan | Citizenship |
| Full name of fifth inventor | Citizensimp |
| | Date |
| Inventor's signature | Date |
| 31 Cross Street, West Newton, MA 02165 | |
| Residence | |
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| Post Office Address | |
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| | U.S.A. |
| Hugh B. Morgenbesser | Citizenship |
| Full name of sixth inventor | Chizenship |
| Inventor's signature | Date |
| | Duit |
| 11A Cottage Avenue, Somerville, MA 02144 | |
| Residence | |
| Same as above | |
| Post Office Address | |

387MBR5473/53.200558



EXPRESS MAIL Mailing Label Number 6181607729005

PATENT Atty. Docket No. MIT-051 (5473/53)

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

(Original, Design, National Stage of PCT, Supplemental, Divisional, Continuation or CIP)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

| This declaration is of the following type: (check one applicable item below) | | | | |
|--|------------------------------------|--|--|--|
| \boxtimes | original | | | |
| | design | | | |
| | supplemental national stage of PCT | | | |
| | divisional | | | |
| | continuation | | | |
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| | is attached hereto. |
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EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Country | Application Number | Date of Filing (mo., day, year) | Priority Under 37 | |
|---------|-----------------------|------------------------------------|----------------------|------|
| | | | □YES | ИО □ |
| | | | □YES | № 🗆 |
| | | | □YES | ИО □ |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

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STATUS

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |
|--------------------------|---------------|--------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |

U.S. FILING DATE

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

| Steven M. Bauer | Reg. No. 31,481 |
|------------------------|------------------|
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Direct correspondence to:

U.S. APPLICATIONS

Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

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Thomas A. Turano (617) 248-7738

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SIGNATURE(S)

| Craig B. Zilles | U.S.A. | |
|---|-------------|--|
| Full name of first inventor | Citizenship | |
| Inventor's signature | Date | |
| 2564 Branch St., #10, Middleton, Wisconsin | 1 53562 | |
| Residence | | |
| Same as above | , | |
| Post Office Address | | |
| | | |
| J. Kenneth Salisbury, Jr. | U.S.A. | |
| Full name of second inventor | Citizenship | |
| Inventor's signature | Date | |
| 20 Pemberton St., Cambridge, Massachusett: Residence | S 02140 | |
| Same as above | | |
| Post Office Address | | |
| | | |
| Thomas H. Massie | U.S.A. | |
| Full name of third inventor | Citizenship | |
| Thornes A Massic | 10/17/% | |
| Inventor's signature | Date | |
| 5 Linlew Dr., Apt. 20, Derry, New Hampshi | ire 03038 | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH FORM A PART OF THIS DECLARATION

| ⊠ | Signature for fourth and subsequent joint inventors. Number of pages added 1. |
|--------|---|
| | Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added |
| | Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added |
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ADDED PAGE FOR ADDITIONAL INVENTORS

| David Lawrence Brock | U.S.A. |
|---|---------------------------------------|
| Full name of fourth inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 83 Park Ave., Natick, Massachusetts 01760 | |
| Residence | |
| Same as above | |
| Post Office Address | |
| | |
| | *** |
| Mandayam A. Srinivasan | U.S.A. |
| Full name of fifth inventor | Citizenship |
| | · · · · · · · · · · · · · · · · · · · |
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| 31 Cross Street, West Newton, MA 02165 | |
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| | PRIORITY CLAIM |
| application least one co foreign app designating | by claim foreign priority benefits under Title 35, United States Code, §119 of any foreign (s) for patent or inventor's certificate or of any PCT international application(s) designating at country other than the United States of America listed below and have also identified below any olication(s) for patent or inventor's certificate or any PCT international application(s) at least one country other than the United States of America filed by me on the same subjecting a filing date before that of the application(s) of which priority is claimed. |
| Checl | k one: |
| Ø | no such applications have been filed. |
| | such applications have been filed as follows: |

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Country | Application Number | Date of Filing (mo., day, year) | Priority Claimed Under 37 USC 119 |
|---------------|-----------------------|---|--------------------------------------|
| | | | |
| | | | □YES NO □ |
| | | | □YES NO □ |
| | | | □YES NO □ |
| \mathbf{AL} | 12 MONTHS (| LICATION(S), IF ANY 6 MONTHS FOR DESI HIS U.S. APPLICATIO | GN) PRIOR TO |
| | | | |
| | | | |

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120:

STATUS

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |
|--------------------------|---------------|--------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |

U.S. FILING DATE

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

| Steven M. Bauer | Reg. No. 31,481 |
|------------------------|------------------|
| Paula A. Campbell | Reg. No. 32,503 |
| Joseph A. Capraro, Jr. | Reg. No. 36,471 |
| John J. Cotter | Reg. No. 38,116 |
| Gillian M. Fenton | Reg. No. 36,508 |
| Duncan A. Greenhalgh | Reg. No. 38,678 |
| Edward J. Kelly | Reg. No. 38,936 |
| Robin D. Kelley | Reg. No. 34,637 |
| Douglas J. Kline | Reg. No. 35,574 |
| John D. Lanza | Reg. No. 40,060 |
| Robin R. Longo | Reg. No. 40,071 |
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| Steven M. Mills | Reg. No. 36,610 |
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| Kurt Rauschenbach | Reg. No. 40,137 |
| Gretchen A. Rice | Reg. No. 37,429 |
| Christopher W. Stamos | Reg. No. 35,370 |
| Robert J. Tosti | Reg. No. 35,393 |
| Thomas A. Turano | Reg. No. 35,722 |
| Michael J. Twomey | Reg. No. 38,349 |
| Christine C. Vito | Reg. No. 39,061` |

Direct correspondence to:

U.S. APPLICATIONS

Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

Direct telephone calls to:

Thomas A. Turano (617) 248-7738

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

| Craig B. Zilles | U.S.A. | |
|---|-------------|--|
| Full name of first inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 2564 Branch St., #10, Middleton, Wisconsin 53562 | | |
| Residence | | |
| Same as above | ` | |
| Post Office Address | | |
| | | |
| | **** | |
| J. Kenneth Salisbury, Jr. | U.S.A. | |
| Full name of second inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 20 Pemberton St., Cambridge, Massachusetts 02140 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |
| | | |
| | | |
| Thomas H. Massie | U.S.A. | |
| Full name of third inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 5 Linlew Dr., Apt. 20, Derry, New Hampshire 03038 | | |
| Residence | | |
| Same as above | | |
| Same as above | | |

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH FORM A PART OF THIS DECLARATION

| \boxtimes | Signature for fourth and subsequent joint inventors. Number of pages added 1. |
|--------------|---|
| | Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added |
| | Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added |
| | Added pages to combined declaration and power of attorney for divisional, continuation, or continuation in-part (CIP) applicationNumber of pages added. |
| | Authorization of attorney(s) to accept and follow instructions from representative. |
| If no furthe | er pages form a part of this Declaration then end this Declaration with this page and check the item. |
| | This declaration ends with this page. |

ADDED PAGE FOR ADDITIONAL INVENTORS

| David Lawrence Brock | U.S.A. |
|--|--------------------|
| Full pame of fourth inventor | Citizenship |
| DA L Sank | 11 - 6 - 96 |
| Inventor's signature | Date |
| 83 Park Ave., Natick, Massachusetts 01760 | |
| Residence | |
| Same as above | |
| Post Office Address | |
| | |
| | II C A |
| Mandayam A. Srinivasan Full name of fifth inventor | U.S.A. Citizenship |
| run name of mui inventor | Citizenship |
| T | Date |
| Inventor's signature | Date |
| 31 Cross Street, West Newton, MA 02165 | |
| Residence | • |
| Same as above | |
| Post Office Address | |
| | |
| Hugh B. Morgenbesser | U.S.A. |
| Full name of sixth inventor | Citizenship |
| | • |
| Inventor's signature | Date |
| 11A Cottage Avenue, Somerville, MA 02144 | |
| Residence | |
| Same as above | |
| Post Office Address | |

387MBR5473/53.200558

continuation

continuation-in-part (CIP)

EXPRESS MAIL Mailing Label Number 5281667729()

PATENT Atty. Docket No. MIT-051 (5473/53)

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

(Original, Design, National Stage of PCT, Supplemental, Divisional, Continuation or CIP) As a below named inventor, I hereby declare that: TYPE OF DECLARATION This declaration is of the following type: (check one applicable item below) original \boxtimes design supplemental national stage of PCT divisional

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

METHOD AND APPARATUS FOR DETERMINING FORCES TO BE APPLIED TO A USER THROUGH A HAPTIC INTERFACE

SPECIFICATION IDENTIFICATION

| the specifi | cation of which (check one): |
|--|--|
| | is attached hereto. |
| \boxtimes | was filed on April 4, 1996 as Application Serial No. 08/627,432 or |
| | Express Mail No., as Serial No. not yet known and was amended on (if applicable). |
| | was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on (if any). |
| | ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR |
| | eby state that I have reviewed and understand the contents of the above identified specification the claims as amended by any amendment referred to herein. |
| | nowledge the duty to disclose information which is material to the examination of this in accordance with Title 37, Code of Federal Regulations, §1.56. |
| | PRIORITY CLAIM |
| application least one of foreign ap designation | eby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign n(s) for patent or inventor's certificate or of any PCT international application(s) designating at country other than the United States of America listed below and have also identified below any plication(s) for patent or inventor's certificate or any PCT international application(s) ag at least one country other than the United States of America filed by me on the same subject ving a filing date before that of the application(s) of which priority is claimed. |
| | ck one: |
| ⊗* | no such applications have been filed. |
| П | such applications have been filed as follows: |

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Country | Application Number | Date of Filing (mo., day, year) | • | Claimed USC 119 |
|---------|-----------------------|--|-------------|--------------------|
| | | | □YES | № 🗆 |
| | | | □YES | № □ |
| | | | □YES | № □ |
| ALI | 12 MONTHS (6 | LICATION(S), IF ANY 6 MONTHS FOR DESIG HIS U.S. APPLICATIO | GN) PRIOR T | |

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120:

STATUS

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |
|--------------------------|---------------|--------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (natented pending aband) |

U.S. FILING DATE

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

| Steven M. Bauer | Reg. No. 31,481 |
|------------------------|------------------|
| Paula A. Campbell | Reg. No. 32,503 |
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Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

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Thomas A. Turano (617) 248-7738

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SIGNATURE(S)

| Craig B. Zilles | U.S.A. | |
|---|-------------|--|
| Full name of first inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 2564 Branch St., #10, Middleton, Wisconsin 53562 | | |
| Residence | | |
| Same as above | · | |
| Post Office Address | | |
| | | |
| | | |
| J. Kenneth Salisbury, Jr. | U.S.A. | |
| Full name of second inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 20 Pemberton St., Cambridge, Massachusetts 02140 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |
| | | |
| | | |
| Thomas H. Massie | U.S.A. | |
| Full name of third inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 5 Linlew Dr., Apt. 20, Derry, New Hampshire 03038 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH FORM A PART OF THIS DECLARATION

| \boxtimes | Signature for fourth and subsequent joint inventors. Number of pages added 1. |
|-------------|---|
| | Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added |
| | Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added |
| | Added pages to combined declaration and power of attorney for divisional, continuation, or continuation in-part (CIP) applicationNumber of pages added. |
| | Authorization of attorney(s) to accept and follow instructions from representative. |
| If no furt | her pages form a part of this Declaration then end this Declaration with this page and check the item. |
| | This declaration ends with this page. |

ADDED PAGE FOR ADDITIONAL INVENTORS

| David Lawrence Brock | U.S.A. | |
|---|-------------|--|
| Full name of fourth inventor | Citizenship | |
| | | |
| Inventor's signature | Date | |
| 83 Park Ave., Natick, Massachusetts 01760 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |
| | | |
| 16.1 | **** | |
| Mandayam A. Srinivasan | U.S.A. | |
| Full name of fifth inventor | Citizenship | |
| To Surriy (deca | 11/1/96 | |
| Inventor's signature | Date | |
| 31 Cross Street, West Newton, MA 02165 | | |
| Residence | | |
| Same as above | | |
| Post Office Address | | |
| | | |
| | | |
| Hugh B. Morgenbesser | U.S.A. | |
| Full name of sixth inventor | Citizenship | |
| | | |
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| Residence | | |
| Same as above | | |
| Post Office Address | | |

387MBR5473/53.200558



EXPRESS MAIL Mailing Label Number EL 816617290US

PATENT

Atty. Docket No. MIT-051 (5473/53)

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

(Original, Design, National Stage of PCT, Supplemental, Divisional, Continuation or CIP)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

| This c | This declaration is of the following type: (check one applicable item below) | | |
|-------------|--|--|--|
| \boxtimes | original | | |
| | design | | |
| | supplemental national stage of PCT | | |
| | divisional | | |
| | continuation | | |
| | continuation-in-part (CIP) | | |

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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METHOD AND APPARATUS FOR DETERMINING FORCES TO BE APPLIED TO A USER THROUGH A HAPTIC INTERFACE

SPECIFICATION IDENTIFICATION

| the specification of which (check one): | | |
|---|---|--|
| | is attached hereto. | |
| \boxtimes | was filed on April 4, 1996 as Application Serial No. 08/627,432 or | |
| | Express Mail No., as Serial No. not yet known and was amended on (if applicable). | |
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| | by state that I have reviewed and understand the contents of the above identified specification he claims as amended by any amendment referred to herein. | |
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| Country | Application Number | Date of Filing (mo., day, year) | | Claimed USC 119 |
|---------|-----------------------|------------------------------------|------|--------------------|
| | | | □YES | ИО□ |
| | | | □YES | NO 🗆 |
| | | | □YES | ИО □ |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

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STATUS

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, aband.) |
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SIGNATURE(S)

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|--|-------------|
| Full name of first inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 2564 Branch St., #10, Middleton, Wisconsin 53562 | |
| Residence | |
| Same as above | , |
| Post Office Address | |
| | |
| T.W d. O.P. L Y | TIC A |
| J. Kenneth Salisbury, Jr. | U.S.A. |
| Full name of second inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 20 Pemberton St., Cambridge, Massachusetts 02140 |) |
| Residence | |
| Same as above | |
| Post Office Address | |
| | |
| | |
| Thomas H. Massie | U.S.A. |
| Full name of third inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 5 Linlew Dr., Apt. 20, Derry, New Hampshire 0303 | 8 |
| Residence | |
| Same as above | |
| Post Office Address | |

CHECK PROPER BOX(ES) FOR ANY OF THE FOLLOWING ADDED PAGE(S) WHICH FORM A PART OF THIS DECLARATION

| ļ | M | Number of pages added 1. |
|---|------------------|---|
| | | Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added |
| } | | Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added |
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| | furthe wing i | r pages form a part of this Declaration then end this Declaration with this page and check the tem. |
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ADDED PAGE FOR ADDITIONAL INVENTORS

| David Lawrence Brock | U.S.A. |
|--|------------------|
| Full name of fourth inventor | Citizenship |
| | |
| Inventor's signature | Date |
| 83 Park Ave., Natick, Massachusetts 01760 | |
| Residence | |
| Same as above | |
| Post Office Address | |
| | |
| | *** |
| Mandayam A. Srinivasan Full name of fifth inventor | U.S.A. |
| Full name of fifth inventor | Citizenship |
| Y | Data |
| Inventor's signature | Date |
| 31 Cross Street, West Newton, MA 02165 | |
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| Hugh B. Morgenbesser | U.S.A. |
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387MBR5473/53.200558

Express Mail Mailing Label No. EL816677290US

PATENT

Attorney Docket No. MIT-051CN(5473/53)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Zilles et al.

SERIAL NO.:

Not Yet Assigned

GROUP NO.:

Not Yet Assigned

FILED:

Herewith

EXAMINER:

Not Yet Assigned

TITLE:

Method and Apparatus for Determining Forces to be Applied to a User Through a

Haptic Interface

Assistant Commissioner for Patents Washington, D.C. 20231

ASSOCIATE POWER OF ATTORNEY

Sir:

An associate power of attorney is hereby granted to:

| NAME | REG. NO. |
|--------------------|----------|
| Joseph B. Milstein | 42,897 |
| | |

in connection with the above-identified patent application, which is a continuation of co-pending U.S.S.N. 09/324,137, filed June 2, 1999, which is a continuation of U.S.S.N. 08/627,432, filed April 4, 1996, now U.S. Patent No. 6,111,577, issued August 29, 2000, to Zilles et al.

Please continue to direct all correspondence relating to the above application to:

Patent Administrator

Testa, Hurwitz & Thibeault, LLP

High Street Tower 125 High Street Boston, MA 02110

Respectfully submitted,

Date: October 26, 2001

Reg. No. 35,370

Christopher W. Stamos

Atty/Agent for Applicant(s)

Testa, Hurwitz, & Thibeault, LLP

Tel. No.: (617) 248-7026

Fax No.: (617) 248-7100

High Street Tower

125 High Street

Boston, Massachusetts 02110

VER 9/00 2208336